

Dr. Andre Marette



TREATMENT | BIOMEDICAL RESEARCH

Project: A new therapeutic strategy for the treatment of type 2 diabetes and complications

Thank you. Through donor support, Dr. Andre Marette, Research Chair in Diabetes and Cardiovascular Diseases, Scientist with the Department of Medicine, Quebec Heart and Lung Institute, Director, Institute of Nutrition and Functional Foods, and Professor with the Faculty of Medicine at Laval University, is bringing us one step closer to understanding how to treat diabetes.

In healthy individuals, blood sugars are controlled by a hormone called insulin, which lowers blood sugar levels. For people with type 2 diabetes, they develop insulin resistance – they can no longer produce or use enough insulin to manage their blood sugars. This can lead to health complications such as nerve damage, blindness, heart disease, kidney failure, anxiety, amputations, and even death.

Type 2 diabetes causes chronic inflammation along with insulin resistance. Dr. Marette and his team are researching a molecule called PDX, which limits both in healthy individuals. As people with diabetes no longer produce ideal levels of PDX, they are testing whether a synthetic form of PDX may help treat inflammation and insulin resistance in people with diabetes. This may lead to improved treatments for people living with this condition.

Thank you for your generosity. Diabetes Canada is grateful to our donors for supporting critical research that will improve the lives of people with diabetes.